

Young IQIS 2020 - Young Italian Quantum Information Science Conference

Monday, 28 September 2020

Invited: Quantum Optics (14:00 - 15:00)

time	[id] title	presenter
14:00	[2] Structured glass for low power actuation of thermal phase shifters	ATZENI, Simone
14:15	[3] Entanglement-based quantum key distribution using a deterministic quantum dot photon source	BASSO BASSET, Francesco
14:30	[6] Cross-Talk effects on conditional measurements	CHESI, Giovanni
14:45	[18] Two-membrane cavity optomechanics	PIERGENTILI, Paolo

Invited: Atoms and Molecules (16:30 - 17:15)

time	[id] title	presenter
16:30	[8] Integrated Organic Molecules for Quantum Technologies	COLAUTTI, Maja
16:45	[12] Adiabatic Quantum Operations with UltraStrongly Coupled Artificial Atoms	GIANNELLI, Luigi

Wednesday, 30 September 2020

Invited: Quantum Protocols (14:00 - 15:00)

time	[id] title	presenter
14:00	[5] Achieving Heisenberg scaling with maximally entangled states: an analytic upper bound for the attainable root mean square error	BELLIARDO, Federico
14:15	[13] Bound states in the continuum in arrays of quantum emitters	LONIGRO, Davide
14:30	[14] Quantum computing model of an artificial neuron with continuously valued input data	MANGINI, Stefano
14:45	[20] Fighting qubit loss in topological QEC codes: theory and experiment	VODOLA, Davide

Invited: Condensed Matter (16:30 - 17:15)

time	[id] title	presenter
16:30	[4] Semiconductor qubits based on hole spins in CMOS devices and edge-states in Hall interferometers	BELLENTANI , Laura
16:45	[15] Vibrational modulation of electronic transitions in Copper Germanate: a theoretical model	MARCANTONI, Stefano
17:00	[17] Full control of nonlinear processes in Josephson parametric amplifiers for readout of superconducting qubits	MIANO, Alessandro

Friday, 2 October 2020

Invited: Fundamental Aspects (13:45 - 15:00)

time	[id] title	presenter
13:45	[104] Anyonic molecules in atomic fractional quantum Hall liquids: a quantitative probe of fractional charge and anyonic statistics	MUÑOZ DE LAS HERAS, Alberto
14:00	[1] Entanglement of formation of mixed many-body quantum states using tensor networks	ARCECI, Luca
14:15	[9] There is only one time	COPPO, Alessandro
14:30	[11] Nonclassical steering and the Gaussian steering triangoloids	FRIGERIO, Massimo
14:45	[16] Witnesses of non-classicality beyond quantum theory	MARLETTO, Chiara

Invited: Open Quantum Systems (16:30 - 17:15)

time	[id] title	presenter
16:30	[7] Mechanism of decoherence-free coupling between giant atoms	CILLUFFO, Dario
16:45	[10] Decoherence-Free Rotational Degrees of Freedom for Quantum Applications	COSCO, Francesco
17:00	[19] Quantum Zeno and anti-Zeno effect in non-Markovian decay process of single-photon polarization states	VIRZÌ, Salvatore